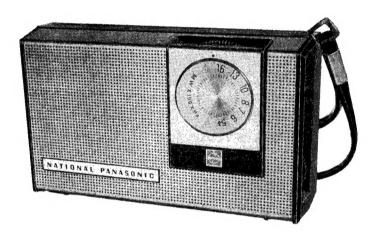


ORDER NO. RD-627

1-BAND 6-TRANSISTOR PORTABLE RADIO

MODEL R-1037



SPECIFICATIONS

Frequency Range:

525~1605 kHz (571~187 m)

Intermediate Frequency:

455 kHz

Transistors:

2SA102 Converter

1st IF Amplifier 2SA101 2nd IF Amplifier 2SA101

AF Amplifier 2SB175

2SB176) Power Amplifier (push-pull)

2SB176)

Detector & AGC

Sensitivity:

O A 9 0 $150\mu V/m$ for 5mW Output

Power Output:

120mW Maximum

Battery:

Diode:

Speaker:

6cm (21/4") PM Dynamic Speaker, 8Ω

Cabinet Dimensions:

 $112(Wide) \times 69(High) \times 33.7(Deep) mm$

 $(4\frac{13}{32}" \times 2\frac{23}{32}" 1\frac{11}{32}")$

Weight:

250g (9 oz.) with batteries

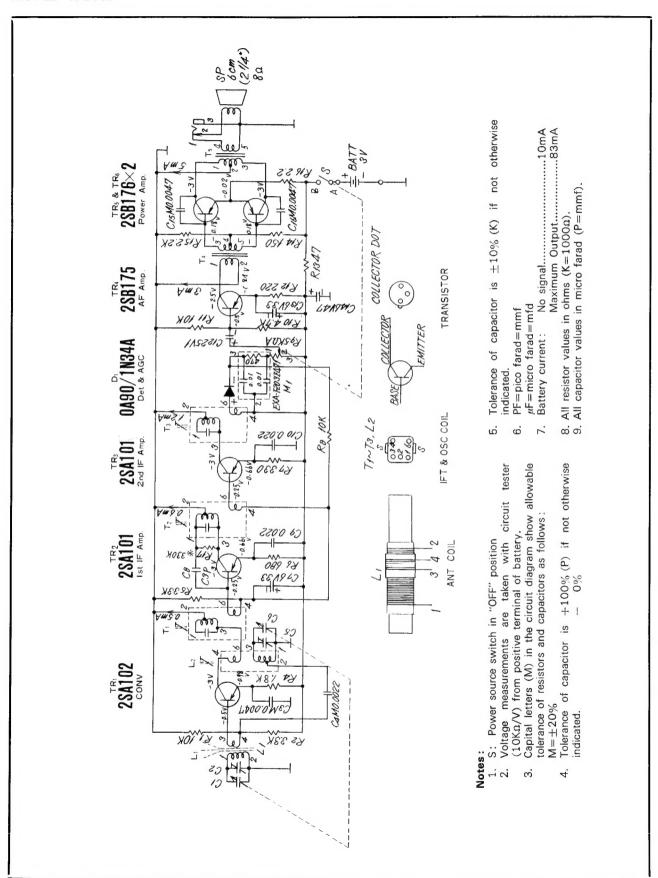


Fig. 1 Schematic Diagram

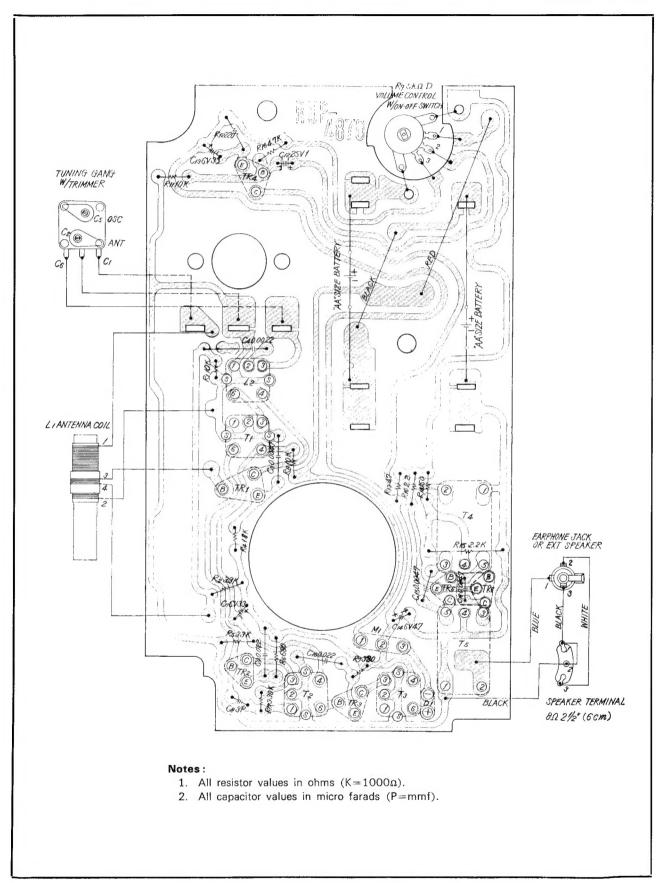


Fig. 2 Circuit Board Wiring View (Conductor Side).

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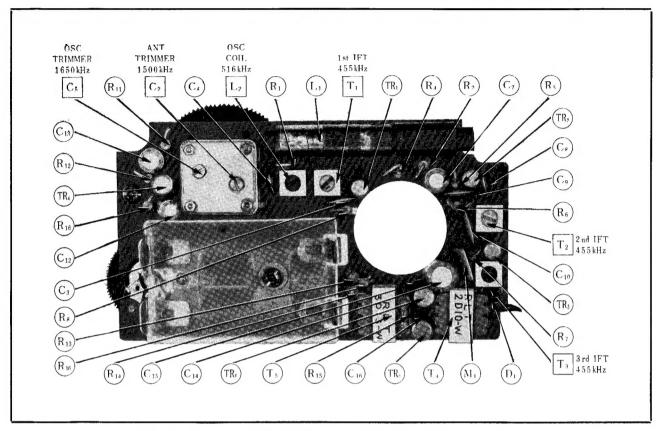


Fig. 3 Component View-Chassis Identification, Alignment points.

ALIGNMENT INSTRUCTIONS

IF & RF ALIGNMENT

SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUSTMENT	REMARKS
Fashion loop of several turns of wire and radiate signal into loop of receiver.	455 kHz (1000Hz Mod.)	Tuning gang fully closed.	Output meter across voice coil	T3 (3rd IFT) T2 (2nd IFT) T1 (1st IFT)	Adjust for maximum output.
<i>"</i>	516 kHz (1000Hz Mod.)	"	"	L ₂ (OSC Coil)	"
//	1650 kHz (1000Hz Mod.)	Tuning gang fully open.	"	C ₅ (OSC Trimmer)	"
"	550 kHz (1000Hz Mod.)	550 kHz	"	L ₁ (ANT Coil)	Adjust for maximum output by sliding coil (L1) along ferrite core.
"	1500 kHz (1000Hz Mod.)	1500kHz	"	C ₂ (ANT, Trimmer)	Adjust for maximum output. Repeat steps(2)through(5

Note: Cement antenna bobbin with wax after completing alignment.

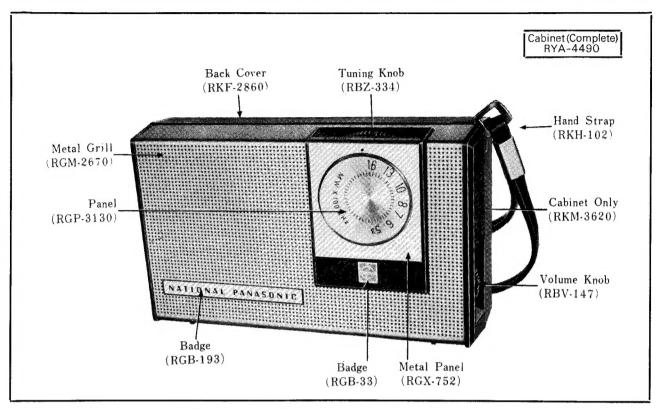


Fig. 4 Cabinet & Appearance — Parts Identification.

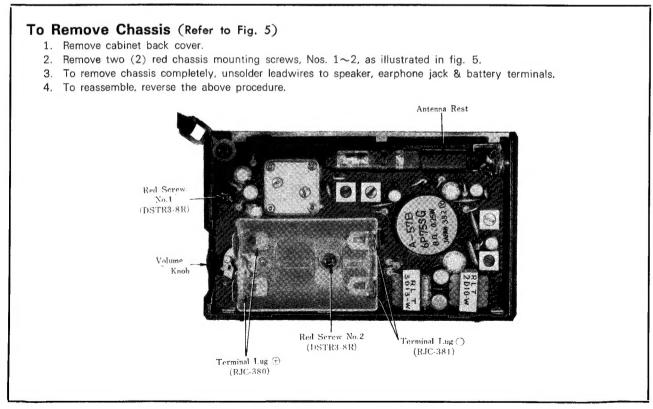
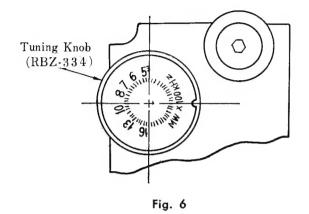
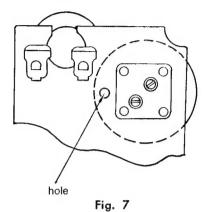
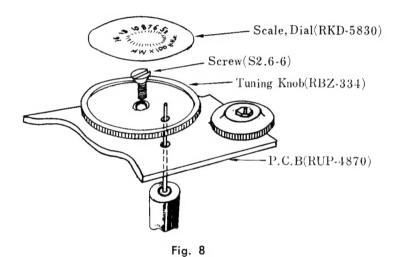


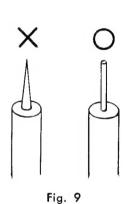
Fig. 5 Top View-Dissembly Points

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To Remove Tuning Knob & Dial Scale

- 1. Set tuning gang to position, as illustrated in fig. 6.
- 2. Remove back cover from cabinet and remove battery sheet.
- 3. Remove dial scale from tuning gang so that gimlet can be inserted into small hole by variable capacitor, as illustrated in fig. 7 & 8.

Notes: (Refer to fig. 9)

- Don't damage it so that removed dial scale make use of again.
- Don't make use of sharp gimlet. Do make use of flat gimlet.

REPLACEMENT PARTS LIST

Notes: 1. * indicates parts for the complete cabinet which are included when cabinet is ordered.

2. Part numbers are indicated on most mechanical parts. Please use this number, therefore, when ordering parts.

Ref. No.	Part No.	Description			
TRANSISTORS AND DIODE					
TR1 TR2 TR3 TR4 TR5 TR6	2SA102 2SA101 2SA101 2SB175 2SB176 2SB176 0 A 9 0/1N34A	Converter 1st IF Amplifier 2nd IF Amplifier AF Amplifier Power Amplifier (Push-pull) Detector & AGC			

Ref. No.	Part No.	Description				
		CAPACITORS				
C8 C15, C16 C4 C3 C9, C10	ECC-D05030C ECQ-G05472MZ ECK-E05222MY ECK-E05472MY ECK-E05223P	3mmfd, 50WV, ±0.25, Ceramic 0.0047mfd, 50WV, ±20%, Ceramic 0.0022mfd, 50WV, ±20%, Ceramic 0.0047mfd, 50WV, ±20%, Ceramic 0.022mfd, 50WV, +100%, Ceramic -0%,				
C12 C7, C13 C14 C1, C6	ECE-A25V1 ECE-A6V33 ECE-A6V47 PVC-LY20T	1mfd, 25WV, Electrolytic 33mfd, 6WV, Electrolytic 47mfd, 6WV, Electrolytic Tuning Gang W/Trimmer (C2, C5)				
	The second secon	RESISTORS				
R16 R13 R14 R12 R7 R6 R4 R2 R10 R1, R8, R11 R5 R15	ERD-14VK 2R2 ERD-14VK 470 ERD-14VK 151 ERD-14VK 221 ERD-14VK 331 ERD-14VK 681 ERD-14VK 382 ERD-14VK 382 ERD-14VK 472 ERD-14VK 103 ERD-14VK 333 ERD-14VK 222 EVL-MOBT12D53	2.2Ω, ¼Watt, ±10%, Carbon 47Ω, ¼Watt, ±10%, Carbon 150Ω, ¼Watt, ±10%, Carbon 220Ω, ¼Watt, ±10%, Carbon 330Ω, ¼Watt, ±10%, Carbon 680Ω, ¼Watt, ±10%, Carbon 1.8ΚΩ, ¼Watt, ±10%, Carbon 3.3ΚΩ, ¼Watt, ±10%, Carbon 4.7ΚΩ, ¼Watt, ±10%, Carbon 10ΚΩ, ¼Watt, ±10%, Carbon 10ΚΩ, ¼Watt, ±10%, Carbon 2.2ΚΩ, ¼Watt, ±10%, Carbon 2.2ΚΩ, ¼Watt, ±10%, Carbon Volume Control 5ΚΩ, A W/ON-OFF Switch (S1)				
	CON	IPONENT COMBINATION				
M ₁	EXA-F203Z471	0.01mfd, 0.01mfd & 470Ω				
	COIL	S AND TRANSFORMERS				
L1 L2 T1 T2 T3 T4 T5	RLF-2L9-U RLO-2B43-U RLI-2B151-M RLI-2B250-M RLI-2B451-M RLT-3D13 RLT-2D10	Antenna Coil Oscillator Coil 1st IF Transformer 2nd IF Transformer 3rd IF Transformer Input Transformer Output Transformer				
	SP	EAKER AND EARPHONE				
SP EP	EAS-6P75SG EAE-1FB	$2\frac{1}{2}$ " PM Dynamic Speaker, 8Ω Magnetic Earphone, 8Ω				
		MISCELLANEOUS				
RJJ-54 RJC-380 RJC-381 **RHP-971 **RHR-630-1		Jack Earphone & EXT Speaker Terminal lug Battery ⊕ Side (2 Req'd) Terminal lug Battery ⊖ Side (2 Req'd) Tape, Metal Grill M'tg. (3 Req'd) Rubber Cushion, (2 Req'd)				
	MISCELLANEOUS					
	RUV-397 RMX-110-3 RMS-51 DSTR3-8R	Sheet, Battery Insulated sheet Bracket, Speaker (2 Req'd) Red Screw, Chassis-mounting				
		APPEARANCE				
	RYA-4490 **RYM-900 **RYF-770 RBZ-334 RKD-5830 RBV-147 RKH-102	R-1037 Prepared Cabinet Prepared Cabinet body Prepared Cabinet Cover Knob, Tuning Scale, Dial Knob, Volume Hand Strap				